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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/758,080	01/16/2004	Gennadi Finkelshtain	P24757	5279	
	7590 05/07/2007 & BERNSTEIN, P.L.C.	·	EXAMINER		
1950 ROLAND	CLARKE PLACE		ECHELMEYER, ALIX ELIZABETH		
RESTON, VA	20191		ART UNIT	PAPER NUMBER	
			1745		
			NOTIFICATION DATE	DELIVERY MODE	
			05/07/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

	Application No.	Applicant(s)				
	10/758,080	FINKELSHTAIN E	T AL.			
Office Action Summary	Examiner	Art Unit				
	Alix Elizabeth Echelmeyer	1745				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. hely filed the mailing date of this c D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 16 Ja	nuary 2004.					
2a) This action is FINAL . 2b) This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-102 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-102 are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any accomplicated any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-33 and 69-102, drawn to a fuel cell having a membrane pervious to hydrogen and impervious to liquids and solids, classified in class 429, subclass 12.
 - II. Claims 34-68, drawn to a membrane for a fuel cell that is pervious to hydrogen and impervious to liquids and solids, classified in class 96, subclass 4.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed such as holes with skewed slots (claim 43 of the instant invention) or reinforcement (claims 50-53 of the instant invention). The subcombination has separate utility such as in an application other than a fuel cell that requires separation of a gas from a liquid or solid.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are

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subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

- 3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 5. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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6. This application contains claims directed to the following patentably distinct species:

- Invention I: there are several different fuel cell embodiments claims.
 Species I is to claims 1-33 and 69; Species II is to claims 70-102. The species are independent and distinct because the fuel cell of Species II does not require a membrane (see claim 70 of the instant invention).
- **Species I**: if Species I, claims 1-33 and 69, is elected, a further election is required: the membrane is claimed as porous (claims 2-29) or nonporous (claims 30-33). The species are independent or distinct because the membrane cannot be both porous and nonporous.
- Species II: in Species II, claims 70-102, several different capabilities for the hydride based fuel are claimed (claim 70). If Species II is elected, Applicants are required to select a capability of the fuel among: capable of absorbing, adsorbing, and undergoing a chemical reaction with molecular hydrogen. ALSO, there are several materials claims (claims 71-74, 76-79). If Invention III is elected, Applicants are required to elect one of the materials among the group
 - hydrogen sponge (claim 71) and a material for the hydrogen sponge (claim 72 – metallic platinum, palladium, titanium, nickel, aluminum, or alloys);
 - o molecular sieve (claim 73);

- o material of ceramics, zeolites, organic polymers, activiated carbon (claim 74);
- o compound having at least one unsaturated bond (claims 76-79).
- Species II: in addition to the above election, if Species II is elected, Applicants are required to elect either the C- or I- shape (claims 96-102).
- Invention II: the membrane is claimed as porous (claims 54-66) or nonporous (claims 67-68). The species are independent or distinct because the membrane cannot be both porous and nonporous.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, in Invention I claim 1 is generic; in Invention II claim 34 is generic; in Invention III claim 70 is generic; in Invention IV no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

7. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alix Elizabeth Echelmeyer whose telephone number is 571-272-1101. The examiner can normally be reached on Mon-Fri 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Susy N. Tsang-Foster can be reached on 571-272-1293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aug Ising the Examiner